

## II. RESEARCH and PUBLICATIONS

### A) Summary of recent research project.

#### **Project 1**

Title: Quality Management Initiative Support (1998)  
Sponsor: Defense Information Systems Agency (DISA)  
Funding level, '97-'98 : \$300,000  
Principal investigator: Francois Melese  
Co-investigators: Commander Mark Murphy; Dr. Michael Stroup; Lt Col. Jon Czernacki  
Description of project: The contract was for DRMI to provide technical support to assist the Defense Information Systems Agency (DISA) in an on-going Quality Management Initiative. A global web survey instrument was constructed to study measurable attributes of the Presidential Quality Award criteria. A Metrics Development Framework (MDF) was developed that combines key quality management models with economics and activity based costing to assist public managers to evaluate and improve organizations.  
Release time: 1 to 2 days per week  
Students participating: Captain Todd Calhoun, Major Michael Castagna, and Major Doug Thiery  
Other staff supported: Dr. Roger Evered (Systems Management), Dr. Cary Simon (Systems Management), Dr. Lyn Whittaker (Operations Research).  
Candidate's role: Principal investigator  
Publications: Melese, F., "The Latest in Performance Budgeting: The Government Performance and Results Act (GPRA)," Armed Forces Comptroller, Spring 1999  
Blandin, J., Melese, F., and S. O'Keefe, "A Framework for Improving Defense Decisions: Integrating Enterprise Resource Planning (ERP) with the Planning, Programming & Budgeting System (PPBS)," Defense and Peace Economics, 2002 (forthcoming).

### B) Books

1. Melese, F., The Optimal Management of Nonrenewable Energy Resources: Problems of Entry and Taxation, University of Louvain Press, 1982.

### C) Sections in books.

2. Fanchon, P. and F. Melese, "**Reaching A Steady State Cycle**," Section 2.6 in Control Theory Methods in Economics by Jati K. Sengupta and Phillip Fanchon, Kluwer Academic Publishers, London, 1997 pp. 54-62.
3. Melese, F., J. Blandin, and P. Fanchon, "**Military Pay**," Section 6.3 in The Economics of Defense, (Hartley, K. & T. Sandler Eds.), 1995.
4. Ingham, A., D. Weiserbs, and F. Melese, "**Unemployment Equilibria in an Open Economy Importing a Natural Resource**" in Economic Theory and Natural Resources, (Eichorn Ed.), Physica-Verlag, Cambridge, Mass., 1982.

### D) Refereed journal papers.

5. Blandin, J., Melese, F., and S. O'Keefe, "A Framework for Improving Defense Decisions: Integrating Enterprise Resource Planning (ERP) with the Planning, Programming & Budgeting System (PPBS)," Defense and Peace Economics, 2002 (forthcoming).
6. Palmore J. and F. Melese, "A Game Theory View of Preventive Defense Against Ballistic Missile Attack," Defense Analysis, August 2001.
7. Melese, F., and J. Palmore, "Ballistic Missile Defense: Protection or Placebo?" Defense Analysis, 16/1, April 2000.
8. Melese, F., "**Gain-Sharing, Success-Sharing and Cost-Based Transfer Pricing: A New Budgeting Approach for the Department of Defense,**" Military Operations Research, 3/1, 1997.
9. Melese, F., and P. Fanchon, "**A Model of Periodic Job Training,**" (with P. Fanchon) International Advances in Economic Research, 2/4, 1996.
10. Fanchon, P., and F. Melese, "**Stratégies Salariales pour Attirer et Garder Certains Employés,**" Gestion des Ressources Humaines [Human Resource Management], 1996.
11. Melese, F., D. Kaserman, and J. Mayo, "**A Dynamic Model of Advertising by the Regulated Firm,**" Journal of Economics, 1996.
12. Melese, F., "**Government-Mandated Benefits, Taxes and Wages,**" Southern Economic Journal, 62/1, 1995.
13. LaCivita, C.J., and F. Melese, "**The Defense Industry Challenge,**" Defence Analysis, 1994.
14. Kaserman, D., and F. Melese, "**Horizontal Mergers and the Balance of Trade,**" Managerial and Decision Economics, 1993.
15. Clark, D., D. Kaserman, and F. Melese, "**Domestic Market Structure and International Trade in an Open Economy,**" Quarterly Review of Economics and Finance, 32/3, 1992.
16. Melese, F., J. Blandin, and P. Fanchon, "**Benefits and Pay: The Economics of Military Compensation,**" Defense Economics (now Defense and Peace Economics), 3, 1992.
17. Melese, F., and Ph. Michel, "**Reversing the Arms Race: A Differential Game Model,**" Southern Economic Journal, 57/4, 1991.
18. Melese, F., and Ph. Michel, "**Uncertainty in Tax Reform: The Case of an Extractive Firm,**" Journal of Environmental Economics and Management, 21, 1991.
19. Melese, F., "**Rethinking Military Medicine,**" Defence Analysis, 6/4, 1990.
20. Melese, F., J. Henderson, and W. Shughart, "**Tit-for-Tat, Tariffs and Time: A Dynamic Model of Trade Policy,**" International Trade Journal, 4/2, 1990.
21. Im, B., D. Kaserman, and F. Melese, "**Endogenous Regulation and the Firm's Regulatory Expenses,**" Applied Economics, 21/3, 1989.
22. Melese, F., and Ph. Michel, "**The Hazard Rate and the Hotelling Rule,**" Atlantic Economic Journal, 16/4, 1988.
23. Melese, F., "**A Quiet Revolution in the Soviet Union,**" Defence Analysis, 4/4, 1988.

24. Im, B., D. Kaserman, and F. Melese, **"Rent Seeking and the Allowed Rate of Return: A Recursive Model,"** Review of Industrial Organization, 3/4, 1988.
  25. Melese, F., and D. Kaserman, **"Superconductors and the Future of Electric Utilities,"** Journal of Policy Analysis and Management, 7/1, 1987.
  26. Melese, F., and W. Transue, **"Unscrambling Chaos Through Thick and Thin: An Explanation,"** Quarterly Journal of Economics, Feb. 1987.
  27. Melese, F., and W. Transue, **"Unscrambling Chaos Through Thick and Thin,"** Quarterly Journal of Economics, 101, 1986.
  28. Melese, F., and Ph. Michel, **"Deregulation, Endogenous Expectations, and the Evolution of Industry Structure,"** Southern Economic Journal, 51/3, 1985.
  29. Melese, F., and Ph. Michel, **"Deregulation as a Switch of Regime: Price Effects Using a Modified Hotelling Rule,"** Energy Economics, 7/2, 1985.
  30. Melese, F., **"Deregulation as a Switch of Regime,"** International Journal of Energy Systems, 5/2, 1985.
  31. Melese, F., **"Cartel Extraction and Backstop Entry,"** Recherches Economiques de Louvain, 46/3, 1980.
  32. Melese, F., **"A Competitive Sector Depletion Allowance in the Context of an Intertemporal Dominant Firm Model,"** Recherches Economiques de Louvain, 45/2, 1979.
- E) Non-refereed journal papers. [reviewed by an editor and sometimes also by one or more referees]
33. Melese, F., **"Strategic Investments in Military Education: An Economic Perspective,"** PHALNX, June 2000.
  34. Melese, F., **"The Latest in Performance Budgeting: The Government Performance and Results Act (GPRA),"** Armed Forces Comptroller, Spring 1999.
  35. Melese, F., and D. Rose, **"A User-Friendly Guide to Statistical Estimation,"** Armed Forces Comptroller, 43/1, Winter 1998.
  36. Melese, F., **"Pile on Microsoft,"** The Free Market, 1998.
  37. Melese, F., J. Lowe, and M. Stroup, **"Integrating Cost and Effectiveness: An Economic Perspective,"** PHALANX, September 1997.
  38. Bonsper, D., and F. Melese, **"Cost Integration and Normalization Issues,"** PHALANX, Dec. 1996.
  39. Melese, F., and M. Stroup, **"Gain-Sharing and Success-Sharing: A Proposal,"** Armed Forces Comptroller, 4, Spring, 1995. (Winner of the Armed Forces Comptroller's "Editorial Award.")
  40. Melese, F., **"Performance Budgeting,"** The Free Market, 1995.
  41. Lowe, J., and F. Melese, **"Down-Sizing and Budget-Cutting: Alternative Strategies,"** Navy Comptroller, 3/2, 1993.
  42. Melese, F., **"Civil Rights Laws Eliminate Jobs,"** The Free Market, 11/3, 1993.
  43. Melese, F., **"The Relationship of Subsidies and Financial Benefits in Military Compensation,"** Military Outlook, (Journal published by the Czech M.O.D.), 4, 1993.

44. Blandin, J., and F. Melese, **“Resources Productivity and Unit Cost,”** Armed Forces Comptroller, 14, 1991.
45. Melese, F., **“Energy and the Free Market,”** American Scientist, 76/2, 1988.

F) Refereed conference papers.

46. Melese, F., **“Optimal Cartel Policy with Stochastic Demand,”** Energy, Power and Environmental Systems, (Hamza Ed.), ACTA Press, Zurich, Switzerland, 71/4, 1985.

G) Book reviews.

45. “A Review of *The Economic Analysis of Mergers*,” book review for Managerial and Decision Economics, 19, 1998.
46. “A Review of *Modern Managerial Economics*,” book review for Managerial and Decision Economics, 15, 1994.

H) Other publications.

47. **“Anti-Missile Shield Questioned,”** (with J. Palmore) USA TODAY, March 24, 1999.
48. **“The Government Performance and Results Act (GPRA),”** (Feature Article) Monterey Chapter Newsletter, American Society of Military Comptrollers, 1/3, January 1999.
49. **“Some Good Advice for Jacques Chirac,”** The Wall Street Journal, July 5, 1995.
50. **“Striking Grocery Workers Won Recent Battle, But May Have Lost The War,”** The Monterey Herald, April 1995.
51. **“Monetary Rewards vs. Pats-on-the-Back,”** The Monterey Herald, January 1995.
52. **“You Get What You Pay For,”** The Monterey Herald, January 1995.
53. **“Navy School Professor Proposes Strategy to Combat DUI,”** The Monterey Herald, January 1994.
54. **“California Water: A Free Market to End the Waste,”** (with G. Moser) The Sacramento Bee, March 27, 1992.